

CLAIMS

1. A substrate for lysing cells and purifying nucleic acid consisting of a matrix, a coating, and an integrity maintenance means for maintaining the nucleic acid.
2. The substrate according to claim 1, wherein said coating is impregnated into the matrix.
3. The substrate according to claim 1, wherein said coating is coated on the matrix.
4. A substrate for lysing cells and purifying nucleic acid consisting of a matrix, a coating and an indicator means for indicating the presence of nucleic acid.
5. The substrate according to claim 4, wherein said indicator means is selected from the group consisting essentially of a fluorescent indicator, color indicator or photometric indicator.
6. The substrate according to claim 4, wherein said substrate is in a shape selected from the group consisting essentially of a swab, a sheet, a card, and a ball.
7. The substrate according to claim 6, wherein said substrate further includes an integrity maintenance means.
8. The substrate according to claim 7, wherein when said substrate is a sheet, said integrity maintenance means is a plastic bag.

9. A method of purifying nucleic acid comprising the steps of applying a nucleic acid sample to a substrate consisting of an coating for enabling cellular lysis and immobilizing the released genetic material fixed to a matrix, the substrate physically capturing the nucleic acid, bonding the nucleic acid to the substrate, and generating a signal when the nucleic acid bonds to the substrate.

10. The method according to claim 6, wherein said generating step is further defined as generating a fluorescent signal, color indicator or photometric indicator.

11. The method according to claim 6, further including the step of analyzing the amount of nucleic acid captured by quantifying the generated signal.

12. A kit for purifying nucleic acid comprising:
a coated matrix and an integrity maintenance means for preserving the matrix and purifying nucleic acid.

13. The kit according to claim 9, wherein said coated matrix is in a shape selected from the group consisting essentially of a swab, a sheet, a card, and a ball.

14. The kit according to claim 9, wherein said integrity maintenance means is selected from the group consisting essentially of a plastic bag, cellophane, a sealable container, cartridge and parafilm.

15. A substrate for labelling blood transfusion bags consisting of a matrix, a coating and an integrity maintenance means.

16. A blood card for labelling blood transfusion bags comprising a matrix, a coating and an integrity maintenance means.

17. A blood card according to claim 16, wherein said card further includes an indicator means for indicating the presence of nucleic acid.